

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/051894

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H03L7/197 H03K23/66

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H03L H03K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 133 058 A (NOKIA MOBILE PHONES LTD) 12 September 2001 (2001-09-12)	1,7,8
Y	the whole document	2-6
X	US 2003/068003 A1 (CASAGRANDE ARNAUD) 10 April 2003 (2003-04-10)	1,7,8
Y	the whole document	2-6
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

17 December 2004

Date of mailing of the international search report

28/12/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KRISHNAPURA N ET AL: "A 5.3-GHZ PROGRAMMABLE DIVIDER FOR HIPERLAN IN 0.25-MUM CMOS" IEEE JOURNAL OF SOLID-STATE CIRCUITS, IEEE INC. NEW YORK, US, vol. 35, no. 7, July 2000 (2000-07), pages 1019-1024, XP001100954 ISSN: 0018-9200 cited in the application	1,7,8
Y	the whole document -----	2-6

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1133058	A	12-09-2001	FI 20000570 A 11-09-2001
			EP 1133058 A2 12-09-2001
			JP 2001292062 A 19-10-2001
			US 2001022537 A1 20-09-2001
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			TW 569537 B 01-01-2004